BIOGRAPHICAL SKETCH

Give the following information for the key personnel and consultants listed on page 2. Begin with the Principal Investigator/Program Director. Photocopy this page for each person.

NAME	POSITION TITLE	BIRTHDATE (Mo., Day, Yr.)
Michael J. Weber	**Professor of Microbiology**	08/23/42

EDUCATION (*Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.*)

INSTITUTION AND LOCATION	DEGREE	YEAR CONFERRED	FIELD OF STUDY
Haverford College, Haverford, PA	B.Sc.	1963	Biology
Univ. California, San Diego, CA	Ph.D.	1968	Cell Biology
Univ. California, Berkeley, CA	Postdoctoral		Virology

RESEARCH AND PROFESSIONAL EXPERIENCE: Concluding with present position, list, in chronological order, previous employment, experienc and honors. Include present membership on any Federal Government public advisory committee. List, in chronological order, the titles and cor plete references to all publications during the past three years and to representative earlier publications pertinent to this application. DO NC EXCEED TWO PAGES.

Professional and Research Experience:

Professor of Microbiology, Univ. of Virginia School of Medicine, 1984-Present.
Frank Talbot Visiting Professor at the Univ. of Virginia School of Medicine, 1983-1984.
Professor of Microbiology, University of Illinois, 1982-1984.
On leave at the Imperial Cancer Research Fund, London, England in the laboratory of Dr. John Wyke, 1979.
Associate Professor of Microbiology, University of Illinois, 1975-1982.
Assistant Professor of Microbiology, University of Illinois, 1970-1975.
Postdoctoral with Harry Rubin, Virus Laboratory, Univ. of California, Berkeley, 1968.

Academic and Professional Honors:

Dernham Post-Doctoral Fellow of the American Cancer Society
Research Career Development Award, 1976-1980
Incomplete List of Teachers Ranked as Excellent, Fall 1980
Member, Molecular Biology Study Section, NIH, 1977-1981
Frank Talbot Visiting Professor at the University of Virginia, 1983-1984
Member, American Cancer Society Study Section, Pers. B.

Representative Recent Publications (Total of 65):

1. Nakamura, K.D., and Weber, M.J. (1982). Phosphorylation of a 36,000 Mr cellular protein in cells infected with partial transformation mutants of Rous sarcoma virus. *Mol. Cell. Biol.* 2:147-158.
2. Weber, M.J., Salter, D.W., and McNair, T.F. (1982). Increased glucose transport in malignant cells: Analysis of its molecular basis. 34th Ann. M.D. Anderson Symp. on Fundamental Cancer Research. *Molecular Interactions of Nutrition and Cancer*. ed. by M.S. Arnott, J. van Eys and Y.-M. Wang. Raven Press, New York.
3. Kahn, P., Nakamura, K., Shin, S., Smith, R.E., and Weber, M.J. (1982). Tumorigenicity of partial transformation mutants of Rous sarcoma virus. *J. Virol.* 42:602-611.
4. Martinez, R., Nakamura, K., and Weber, M.J. (1982). Identification of phosphotyrosine-containing proteins in untransformed and Rous sarcoma virus-transformed chicken embryo fibroblasts. *Mol. Cell. Biol.* 2:653-665.
5. Shanahan, M.F., Olson, S.A., Weber, M.J., Lienhard, G.E., and Gorga, J.C. (1982). Photolabeling of glucose-sensitive cytochalasin B binding proteins in erythrocyte, fibroblast and adipocyte membranes. *Biochem. Biophys. Res. Comm.* 107:38-43.
6. Chakravarty, P.K., Carl, P.L., Weber, M.J., and Katzenellenbogen, J.A. (1983). Plasmin activated prodrugs for cancer chemotherapy. I. Synthesis and biological activity of peptidyl acivicin and peptidyl phenylene diamine mustard. *J. Med. Chem.* 26:633-638.
7. Chakravarty, P.K., Carl, P.L., Weber, M.J., and Katzenellenbogen, J.A. (1983). Plasmin activated prodrugs for cancer chemotherapy. II. Synthesis and biological activity of peptidyl derivatives of doxorubicin. *J. Med. Chem.* 26:638-644.

8. Nakamura, K.D., Martinez, R., and Weber, M.J. (1983). Tyrosine phosphorylation of specific proteins following mitogen stimulation of chicken embryo fibroblasts. *Mol. Cell. Biol.* 3:380-390.
9. Cooper, J., Nakamura, K.D., Hunter, T., and Weber, M.J. (1983). Phosphotyrosine-containing proteins and the expression of transformation parameters in cells infected with partial transformation mutants of Rous sarcoma virus. *J. Virol.* 40:15-28.
10. Weber, M.J., Nakamura, K.D., and Martinez, R. (1983). Cultured cells transformed by Rous sarcoma virus: A genetically defined model and its phenotype. In "Prevention of Large Bowel Cancer" (J.R.F. Ingall and A.J. Mastromarino, eds.). Alan R. Liss, Inc., New York.
11. Bishop, R., Martinez, R., Nakamura, K.D., and Weber, M.J. (1983). A tumor promoter stimulates phosphorylation on tyrosine. *Biochem. Biophys. Res. Comm.* 115:536-543.
12. Bruesch, M.R., Johnson, G.L., Palackdharry, C.S., Weber, M.J., and Carl, P.L. (1983). Plasminogen activator in normal and tumor-bearing mice. *Int. J. Cancer* 32:121-126.
13. Weber, M.J., Evans, P.K. Johnson, M.A. Nakamura, K.D., and Salter, D.W. (1984). Transport of potassium, amino acids and glucose in cells transformed by Rous sarcoma virus. *Federation Proceedings* 43:107-112.
14. Weber, M.J., Nakamura, K.D., and Salter, D.W. (1984). Molecular events leading to enhanced glucose transport in Rous sarcoma virus-transformed cells. *Federation Proceedings*, 43:2246-2250.
15. Weber,M.J. (1984). Malignant transformation by Rous sarcoma virus: From phosphorylation to phenotype. *In* "Advances in Viral Oncology," Vol. 4 (George Klein, ed.), Raven Press, New York.
16. Monteagudo, C.A., Williams, D.L., Crabb, G.A., Tondravi, M., and Weber, M.J. (1984). Phosphotyrosine-containing membrane proteins in Rous sarcoma virus-transformed cells. *Cold Spring Harbor Meetings on Cell Proliferation: The Cancer Cell* 2:69-75.
17. Bishop, R., Martinez, R., Weber, M.J., Blackshear, P., Beatty, S., Lim, R., and Herschman., H.R. (1985). Protein phosphorylation in a Tetradecanoyl Phorbol Acetate-Nonproliferative variant of 3T3 cells. *Mol. Cell. Biol.* 5:2231-2237.
18. Burman, S., Davis, J.C., Weber, M.J., and Averill, B.A. (1986). The interaction of phosphate with the purple acid phosphatase from beef spleen: evidence that phosphate binding is accompanied by oxidation of the iron chromophore. *Biochem. Biophys. Res. Comm.* 136:490-497.
19. Libby, J., Martinez, R., and Weber, M.J. (1986). Tyrosine phosphorylation in cells treated with transforming growth factor-β. *J. Cell Physiol.* 129:159-166.
20. Wasilenko, W.J., Shawver, L.K., and Weber, M.J. (1987). Down-modulation of EGF receptors in cells transformed by the *src* oncogene. *J. Cell. Physiol.* 131:450-457.
21. Shawver, L.K., Olson, S.A., White, M.K., and Weber, M.J. (1987). Degradation and Biosynthesis of the glucose transporter protein in chicken embryo fibroblasts transformed by the *src* oncogene. *Mol. Cell. Biol.* 7:2112-2118.
22. Reynolds, A.B., Vila, J., Lansing, T.J., Potts, W.M., Weber, M.J., and Parsons, T.J. (1987). Activation of the oncogenic potential of the avian cellular *src* protein by specific structural alteration of the carboxy terminus. *EMBO J.* 6:2359-2364.
23. White, M.K., and Weber, M.J. (1987). Transformation by the *src* oncogene alters glucose transport into rat and chicken cells by different mechanisms. *Mol. Cell. Biol.* (Accepted for publication).
24. Vila, J., and Weber, M.J. (1987). Mitogen-stimulated tyrosine phosphorylation of a 42 kDa cellular protein: Evidence for a protein kinase-C requirement. *J. Cell. Physiol.* (Accepted for publication).